# ARIZONA



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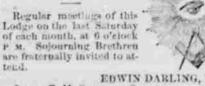
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Estate of J. W. JENKINS, Deceased.

NOTICE IS HEREBY GIVEN BY THE undersigned, duly appointed Administrator of the above named Estate, to the creditors of, and all persons having claims against, said de-ceased, to exhibit the same, with the Lecessary vouchers, within one year from the first publica-tion of this notice, to James Fine, at his place of business, in the town of Prescott, Yavapai county, Territory of Arizona. JAMES FINE. JNO. HOWARD, His Atttorney. fc1

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The following extracts are from Guido Kustel's new book on mining:

CONCENTRATION OF SOLD OFFS, The concentration or separation of gold from crushed ore is performed in three waysfirst, by quicksilver; second, by water on an inclined plane; and third, by amalgamation

and concentration combined. The gold sinks in quicksilver so much the easier the less silver it contains and the coarser the particles are; but also low gold containing from forty to lifty per cent, of silver, being then nearly of the density of quick silver, will separate from the sand, as the quicksilver adheres to the gold, coating its surface. The coating is not instantaneous. The sand containing gold must be stirred for some time in contact with quicksilver in order to coat it; low gold longer than high

The quantity of mercury necessary for separation varies largely according to the method adopted. The arastra and battery amalgamation give a better result if only much quickstiver is used as is required to form a hard amalgam. The pan amalgamation, on the contrary, needs from 60 to 100 pounds of quicksilver as a constant charge

Quicksilver always dissolves gold, but fortunately only to a certain amount—three-Sourths to one and a fourth ounces to a hundred pounds of mercury. This dissilved gold is constantly retained, unless retorted; but even in this case a small percentage of

Treating gold ores in an arratra, quicksliver is added in proportion to the gold in the quartz (as learned by experience or by a fire assay) but not in one charge. After the rock ounce, according to the richness of the ere, is scattered over the pulp through a piece of eros and others, with goods, in jebbing lots, at und until a sample of the pulp, washed in a the power of the strongest acids. horn-speed, does not show a particle of free There is dust on sea and land—in the valgold. The amalgam accumulates mostly in ley and on the mountain top—there is dust rapting him.

important reasons, battery amaigamation can- the liquids necessary to keep the eyeball purpose of lightening vessels over the bar, at not be considered as a proper way of saving washed clean, as the best varnish is impergold. It too much quicks liver is introduced, vious to water.

The breath which leaves the lungs has been a liver of camers. Gen. Marmaduke is engaged in the commission sording to direction of purchaser. a part of it is thrown out through the screens,

#### must be administered. CONCENTRATION OF SILVER ORES,

Not all kinds of silver ores can be concentrated. The concentration of silver ores is generally a most delicate operation, being subject to heavy loss, which cannot be avoided. This unavailable loss, however, can be increased easily to double the necessary amount by an improper choice of macninery and treatment. It is, therefore, an important rule to separate by hand as much of the richer part as possible, leaving the poorest for concentration, and to reject at the same time the worthless rock.

Crushing to course grains, such as is required for jigging, will not do with allver ores. They are generally so dis-eminated in the gangue that crushing to sand is always required. Unlike galena, silver ores achiere with tenacity to the gangue, so that even, if large particles of pure ore should prevail, a preceding extraction by coarse crushing would not of-fer any advantage, in as much as the residucould not be considered worthless; but all of it would need to be reduced finer for further concentration, increasing the expenses, which would not be covered by the gain of the double extraction. CONCENTRATION WORKS.

always as near the mine as possible, in order to reduce the hanling expense. It is also important to choose the site on a hill-side or on elevated ground, and to build the oredumps high enough above the battery floor, so that the ore, by means of a shoot, may be easily delivered to the batteries. The shoot is often replaced by inclined grates on which the ore rolls down. What falls through the grate bars (two and a balf inches apart)

sorting apparatus. The quantity of water must be carefully most water could be expected, to the depth sable, to run a drift across the stratified rock, waking in the morning.

Concentration of Ores and Chlorination. in order to increase the water supplying surface. The concentration may be arranged also with less water, by pumping up that already used after it has had an opportunity to settle, and using it over again.

THE LOSS OF GOLD IN ROASTING.

It has been stated that the loss of gold in the roasting of gold ores in some places amounted to a high per centage; in some cases, even to 100 per cent. This, however, was not confirmed by the experiments of Plattner who exposed different combinations of gold, with sulphur and arsenic metals, and different ores and other substances, as well as free gold, in the finest state to different de grees of heat, for longer and shorter intervals of time, but the result showed that a loss of gold occurred only when the roasting was performed so rapidly that the finest gold particles were carried off by the volatile products

of roasting.

Many other experiments showed that the loss of gold in roasting is very inconsiderable. The results obtained in California confirm the same. Many tons of sulphurets have been reasted for more than 30 hours without interruption, and the result of chlorination has given 90 per cent, of the gold, as com-pared with the fire away. The tailings always contained some gold, so that very little or none of 't was lost during the roasting.

It has also been stated in California (perhaps taken for granted) that an addition salt causes sometimes a loss of gold. This also seems to be contradicted by the recent proceedings in Grass Valley, where 5 per cent, of salt has been used on the concentrated sulphurets with a satisfactory result.

### Marvels of Man.

While the gastric juice has a mild, bland, has been ground tolerably fine, one-half of an sweetish taste, it possesses the power of dipesting the hardest food that can be swallowed. It has no influence whatever on the fibres of the living animal, but at the moment vals of half an hour. The charge is conting of death it begins to eat them away, with

the crevices of the stone bottom and on the always and everywhere. The atmosphere is full of it. It penetrates the noisome dungeun, Using quicksilver in a battery, about the and visits the despest and darkest caves of same proportion in reference to the amount the carth. No palace door can shut it out; of gold in the rock is taken as in the arastrano drawer is so secret as to escape its pres-Every half hour, or every hour, one-eighth ence. Every breath of wind dashes it upon to one-half of an ounce of quicksilver is in- the eye, which yet is not blinded, because of troduced at the feed side into the battery, the blandest fluid in nature essentially empwhile crushing is going on. The gold unites tying itself under the cyclid, which spreads readily with the mercury, and accumulates as itself over the cyclid, at every winking, and ners of the battery and along the screen, in liquid, so well adapted to the eye itself, has and outside, on amalgamated copper-plates, some accidity which, under certain circum-which are sometimes applied on both long stances, becomes so decided as to be scalding sides inside the battery. But the smalgam is to the skin, and would not away the eyelids also found in very inconvenient places, in the were it not that along the edges of them cry-holes of the stamp-heads, on the shoul- there are little oil manufactories, which spread ders of the shoes, etc. For this and other over their surface a coating as impervious to

on the platform, in drops. The annilgam out- so perfectly divested of its life-giving proper. Marmaduke is engaged in the commission side the screens is a guide as to the quantity ties, that to re-breathe it, unmixed with and forwarding business in St. Louis. Gen. of quick-silver to be used. If it is found so other air, the moment it leaves the mouth. Forrest is at his home in Memphis. Gen. soft that it yields easily to the touch with would cause immediate death by sufficiation; Magruder is at present in Baltimore. Gen. the finger, the charging of mercury must be while if it hovered about us, a more or less Longstreet has been in New York. Gen. stopped for several hours; but if the anni- destructive influence over health would be Wigfall is in London, engaged in active paygam appears too hard and dry, crumbling to occasioned. But it is made of a nature so ing pursuits. So is Mr. Benjamin, who is pieces when pressed, a little more quicksilver much lighter than the common air, that the practicing law. Gen. E. Kirby Smith is at

beautifully exhibited any frosty morning. But foul and deadly as the expiring air is, nature—wisely economical in all her works | Gen. Fagun is practicing law in Little Rock. and ways-turns it to good account in the Gen. Hawthorn is in the Brazillian army,

outward passage through the organs of voice. ground, his arms at right angles with his a railroad company, and is at present travelbody, a circle, making the navel the centre, | ing in the North and East. Gen. Beauregard and the feet. The distance from "head to Jackson Railroad, headquarters in New Ortoe" is precisely the same as that between leans. Gen. Dick Taylor is making money the tips of the fingers when the arms are ex- with his canal contract in New Orleans. tended. The length of the body is just six Generals Wirt, and Dan. Adams are also entimes that of the foot, while the distance gaged in business in New Orleans. So are from the edge of the hair on the forehead to about lifteen other Major and Brigadier Con-

of the whole stature. Of the sixty-two primary elements known in nature, only eighteen are found in the human body, and of these, seven are metalic. sones; dust and ashes in them all. Not only these eighteen human elements, but the whole sixty-two, of which the whole universe The location of a mill should be selected is made, have their essential basis in the four abstances-oxygen, hydrogen, nitrogen and carbon-representing the more familiar names of fire, water, saltpetre and charcoal. And such is mun, the lord of the carth-a spark of fire-a drop of water-a grain of gunpowder, an atom of charcosl.

MISTAKES IDEAS. - Many foolish things are done every day by persons who think them-selves wise. Perhaps no follies are more common than these: To think that the more selves wise. is suitable for direct feeding; the coarser ore common than these: To think that the more is generally broken by rock breakers to the a man cats the fatter and stronger he will become. To believe that the more hours chil-It is equally important to place the batte- dren study the faster they learn. To conries from 10 to 12 feet above the concentra- clude that if exercise is good the more violent ting department, otherwise the battery stuff it is the more good is done. To imagine that would need be elevated by bucket wheels or every hour taken from sleep is an hour gained. other means, in order to be conveyed into the | To act on the presumption that the smallest room in the house is large enough to sleep in. To argue that whatever remedy causes one to considered, and the calculation made as to feel immediately better is good for the syshow much is required as motive power, or for tem without regard to more ulterior effects. the engine, and how much for the battery and the concentrating tables. It is often the cat after it has been satisfied, merely to gratically asks: "What Southern man, not a coward case that the water falls very short in sum- fy the taste. To cat a hearty supper for the mer; it is then advisable to sink a shaft where pleasure experienced during the brief time it is passing down the throat at the expense of his disfranchisement and degradation, and Special and General Powers-of-Attorney, At their Ranch, on Indian Creek, 41-2 miles south of 40 to 50 feet, and if necessary and admis- a whole night of distinbed sleep and a weary | the confiscation of his property to their own

#### A Confirmed Grumbler.

The following sketch may be a caricature, though we think there is a human likeness

about it so real as to be easily recognized: Sometime ago there lived in Edinburgh a well known grumbler named Sandy Black, whose often recurring fits of spleen or indigestion produced some amusing scenes of enceless irritability, which were highly relshed by all except the brute's good, patient

One morning Sandy rose bent on a quarrel; the laddies and eggs were excellent, done to a turn, and had been ordered by himself the previous evening, and the breakfast passed without the looked-for complaint. "What will you have for dinner, Sandy ?"

said Mrs. Black. "A chicken, madam," said the husband. "Roast or boiled?" asked the wife.

"Confound it, madam, if you had been a good considerate wife, you'd have known be-fore this what I liked," Sandy growled out, and slammed the door behind him, and left the house. It was in the spring, and a friend who was present heard the little wife say: "Sandy's bent on a disturbance to-day; I

shall not picase him, do what I can."

The dinner time came, and Sandy and his friend sat down to dinner, the fish was eaten in silence, and on raising the cover of the dish before him, in a towering passion he called

Bolled chicken! I hate it, madam. A

chicken boiled is a chicken spoiled." Immediately a cover was raised for another

chicken, roasted to a turn. "Madam, I wont eat roast chicken," roared "You know how it should have been

At that instant a broiled chicken with mushrooms was set on the table. "Without green peas!" round the grom-

'Here they are, dear," said Mrs. Black. "flow dure you spend my money in that Way"

"They were a present," said the wife inter-Rising from his chair, and rushing from the com, amidst a roar of laughter from his friend, he clenched his fist and shouted: "How

dare you receive a present without my leave!"

WHEREABOUTS OF BY CONFEDERATE GEN-ERALS .- A letter to the Houston Telegraph states that Major-General J. G. Walker of Walker's old division, is at Versailes, Woodrud, Kentucky. He writes in a private letter: amulgam, in batches, depositing in the cor- washes every atom of the dest away. This "I have brought out from England a full set of steam agricultural implements, and design, during the coming season, cultivating a farm of some few hundred acres with them." M. Jeff. Thompson, now in New Orleans, will return North, and continue to solicit capitalists to take stock in a company in New Orleans which was organized last spring for the the mouth of the Mississippi river, by means of camels. Gen. Hindman is president of the moment it escapes the lips and nostrils it as- | the head of an institution of learning in Kencends to higher regions, above the breathing tucky, which is under the control of the point, there to be rectified, renovated and Episcopalians. Gen. Buckner is the presisent back again. How rapidly it ascends is dent of the Commercial Insurance Company in New Orleans. Gen. Bragg is at the head of the city water works in New Orleans. with the rank of Colonel. Gen. Joe. John If a well made man be extended on the ston has resigned his position as president of just take in the head, the finger ends in still president of the New Orleans and the edge of the chin is one-tenth of the length | federate Generals, including Maury, Wheeler, etc. Gen. Shelby is in or near St. Louis,

CHARLES T. BOTTS, formerly editor of the Iron is found in the blood; phosphorus in the brain; limestone in the bile; lime in the bones; dust and sales in the bile; lime in the sociated together in the law and claims business in Washington, D. C., and are said to be doing well.

> RESUMED PRACTICE.—Zach Montgomery announces to the public of California that "the Attorney's Test Oath, which for four years has disgraced our statutes, having been repealed by our present Legislature," he has resumed the practice of his profession.

> "I want to buy a sewing machine," said your fellers about me."

LUCY STONE said: "There is cotton in the ears of man, and hope in the bosom of woman." Lucy made a mistake, and got the cotton in the wrong place.

WHAT is the difference between the door of a barn and an over talkative person? One

is a barn door and the other a darn bore. or fool, would give employment or encouragement to negroes voting and acting in favor of